WORKSHOP AGENDA
HUNTINGTON BEACH PLANNING COMMISSION
WEDNESDAY, MARCH 31, 2010

AGENDA ITEM NO. 3

GREEN BUILDING UPDATE

ATTACHMENTS:

1. **POWERPOINT – HB GREEN UPDATE**

City of
Huntington Beach

HB Green Update

Planning Commission Workshop
March 31st, 2010
Aaron Klemm

ATTACHMENT NO. 1.1

Overview

- Hired Energy Project Manager in 2008
- Utility bill audit - 2008
- Entered into Energy Efficiency Partnership with utilities in early 2009
- Completed 1st round Energy efficiency projects in Dec 2009
- 2nd round of Energy efficiency projects
- HB lent staff to support OC Sunergy (PACE) program

ATTACHMENT NO. 12

Energy Programs

- Staff expertise in energy & sustainability
  - Utility Bill audit results - ~$200K in recoverable costs
  - ~$100K in annual savings or avoided costs
- Utility-local government energy leader partnership
  - Provides non-general fund revenue in exchange for energy savings projects
  - Provides funds for energy smart policy-making

ATTACHMENT NO. 1.3

Energy Projects Completed

- Two energy savings projects
  - Automatically turning PC's off at night
    - No capital cost
    - $30K in annual savings
  - Retro-commission Civic Center
    - A comprehensive building tune up
    - 70% paid for by utility incentives
    - $150K in annual utility savings
    - ~200% return on city's investment

ATTACHMENT NO. 1.4

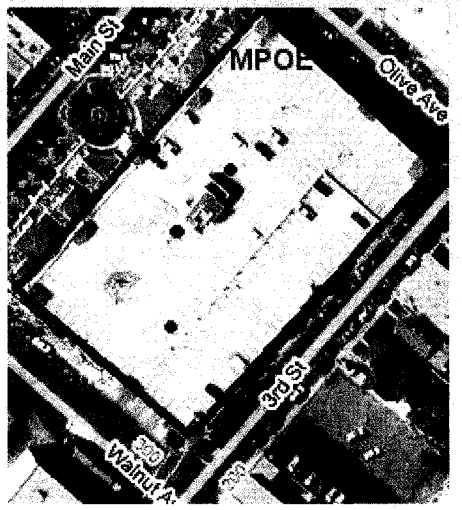
Energy Projects in Process

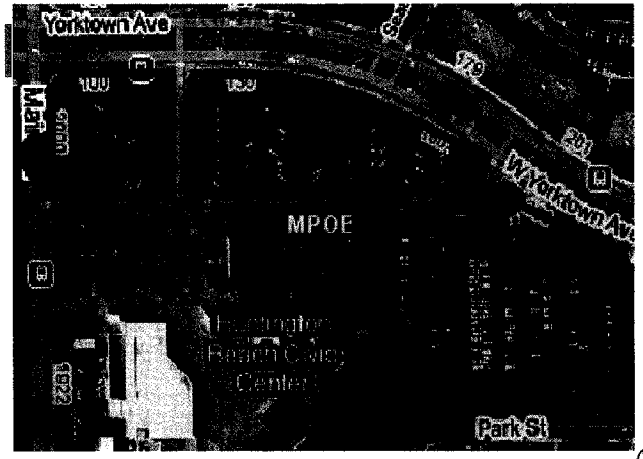
- Central Library retro-commissioning
- Federal Grant funds $1.78M plus utility incentives
    - Interior Lighting
    - HVAC & IS
    - Energy Info. Management System
  - LED controllable streetlights downtown entertainment district
  - Large scale municipal solar
    - Carports & Rooftops

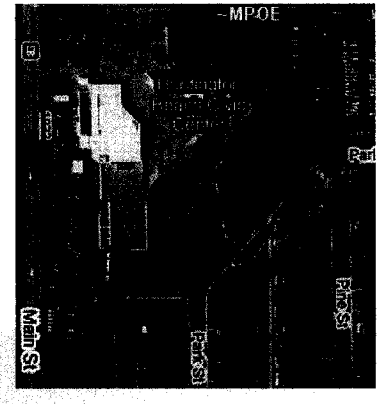
ATTACHMENT NO. 1.5

HB Solar Sites:

- Solar Carports (most visible)
  - Downtown Parking structure
  - Civic Center parking lots
  - Police Dept. yard
  - Central Library
  - Sports Complex parking
  - Murdy Center



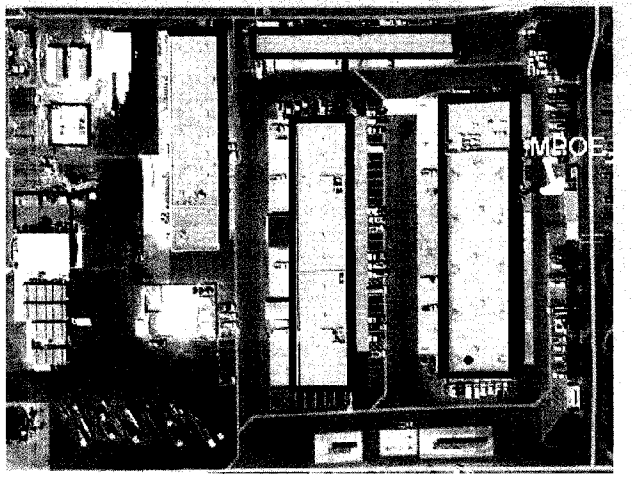


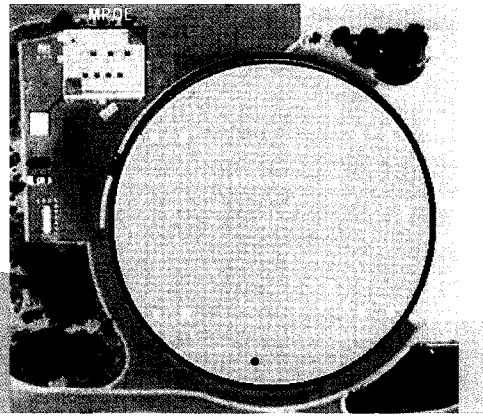


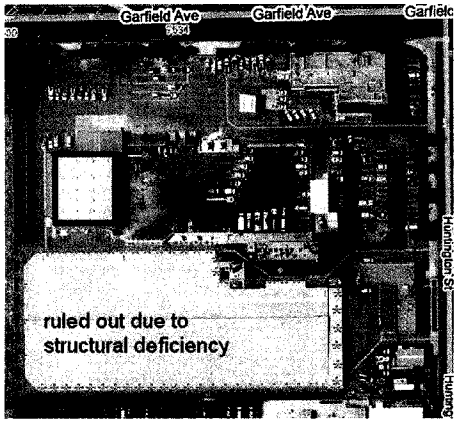
ATTACHMENT NO. 1.6

HB Solar Sites:

- Rooftop
  - City Yard
  - PD building (newer roof)
  - Reservoirs
  - Central Library roof
  - Water yard warehouse

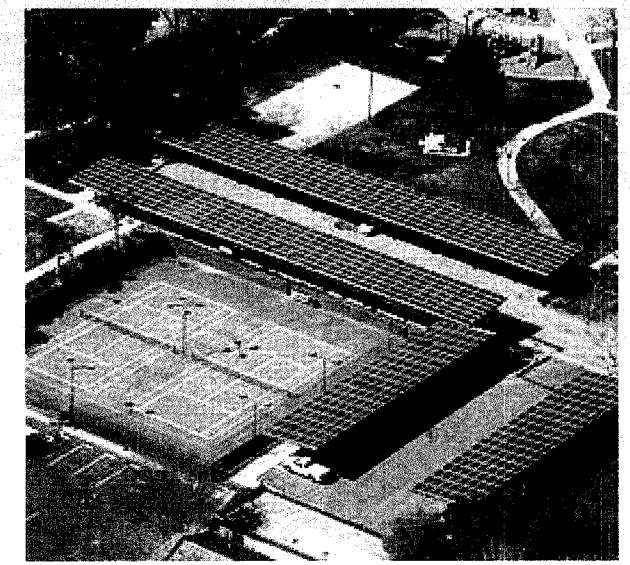


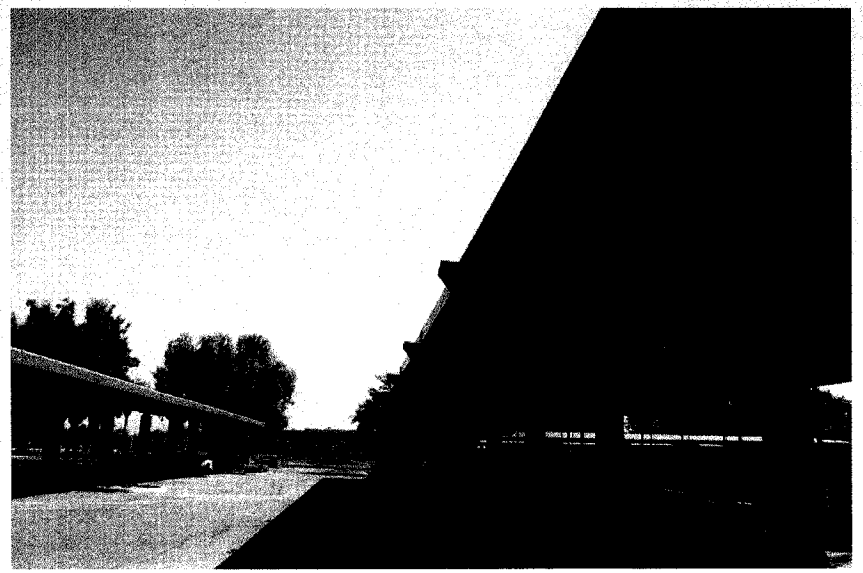




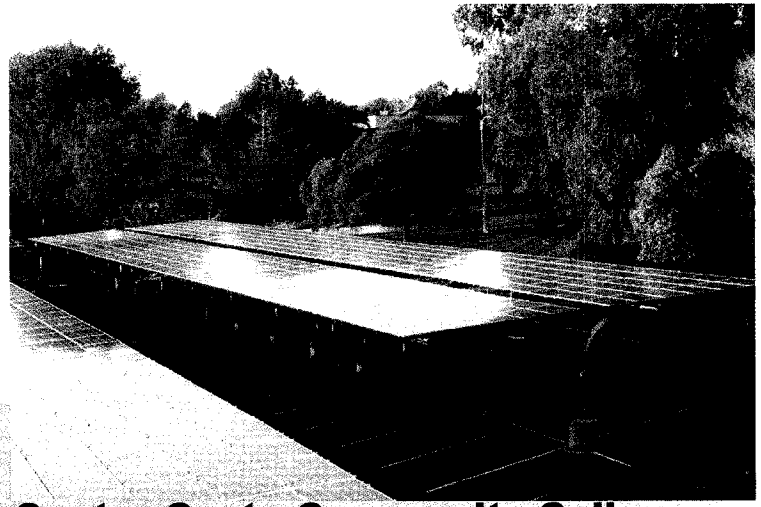
ATTACHMENT NO. 1.7

Example Solar Carports

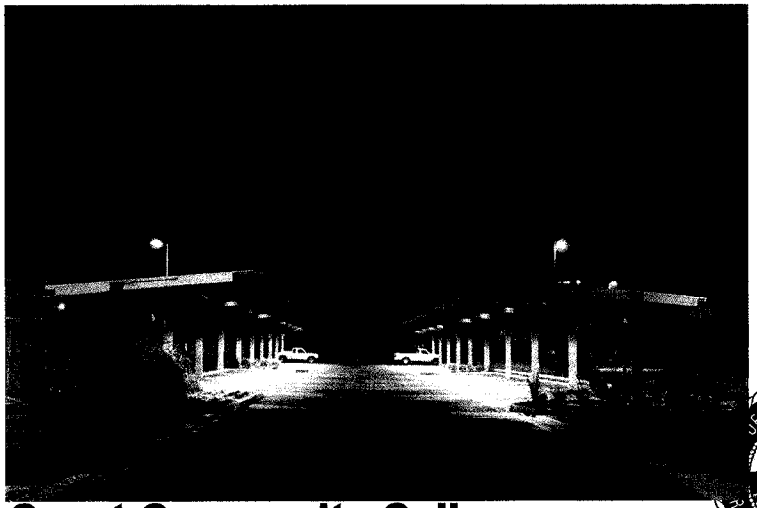




City of Perris, CA

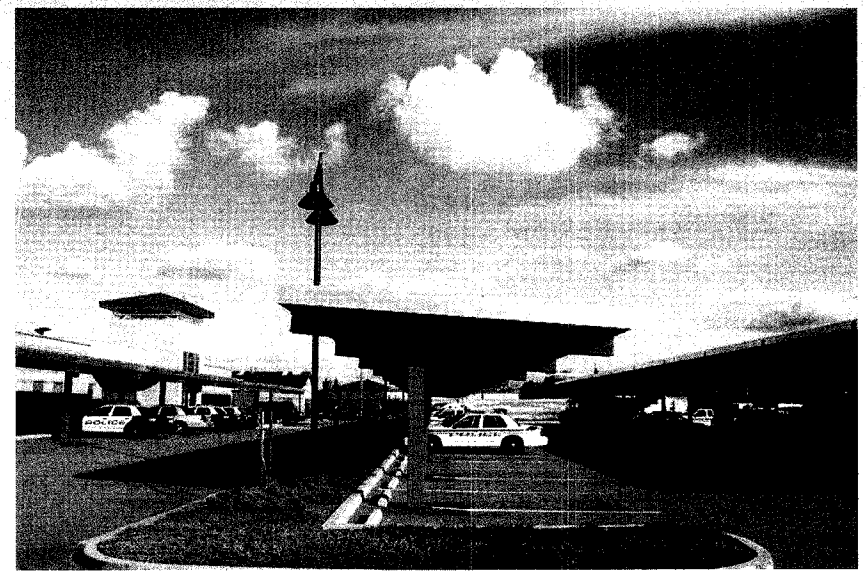


Contra Costa Community College



Coast Community College

ATTACHMENT NO. 1.8



Rocklin Police Station

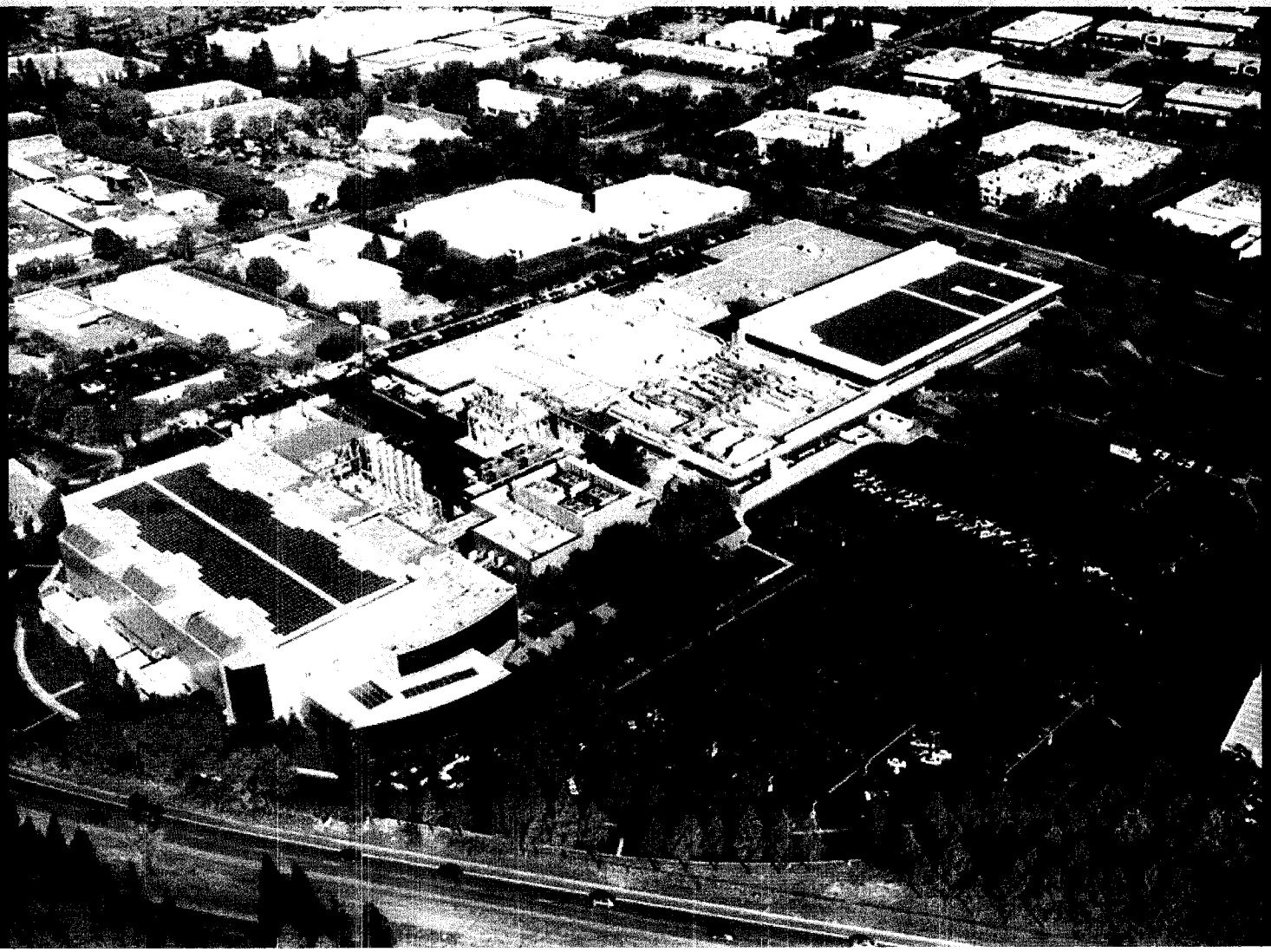
Hunters Point

San Diego Environmental Services

Diablo Valley College

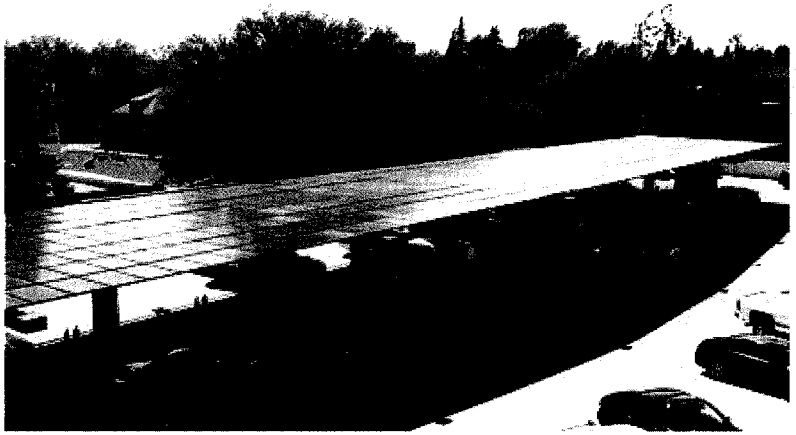
ATTACHMENT NO. 1.9

Applied Materials campus

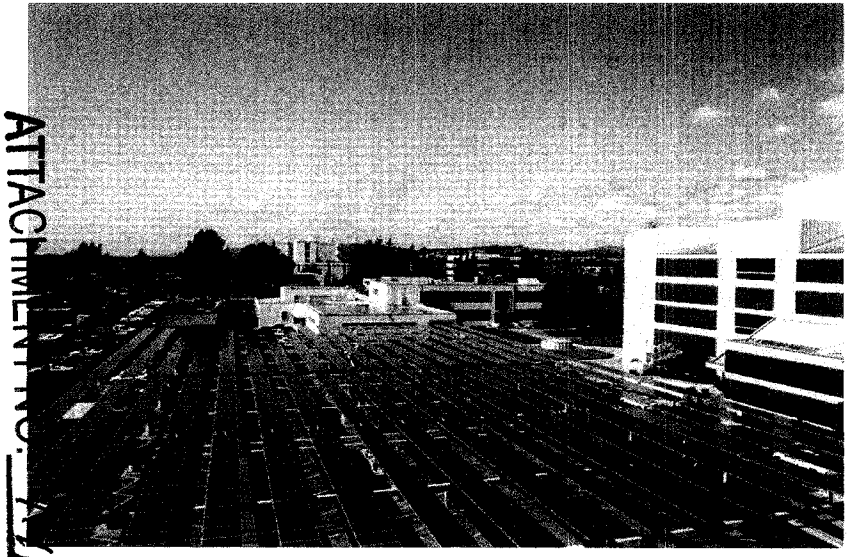


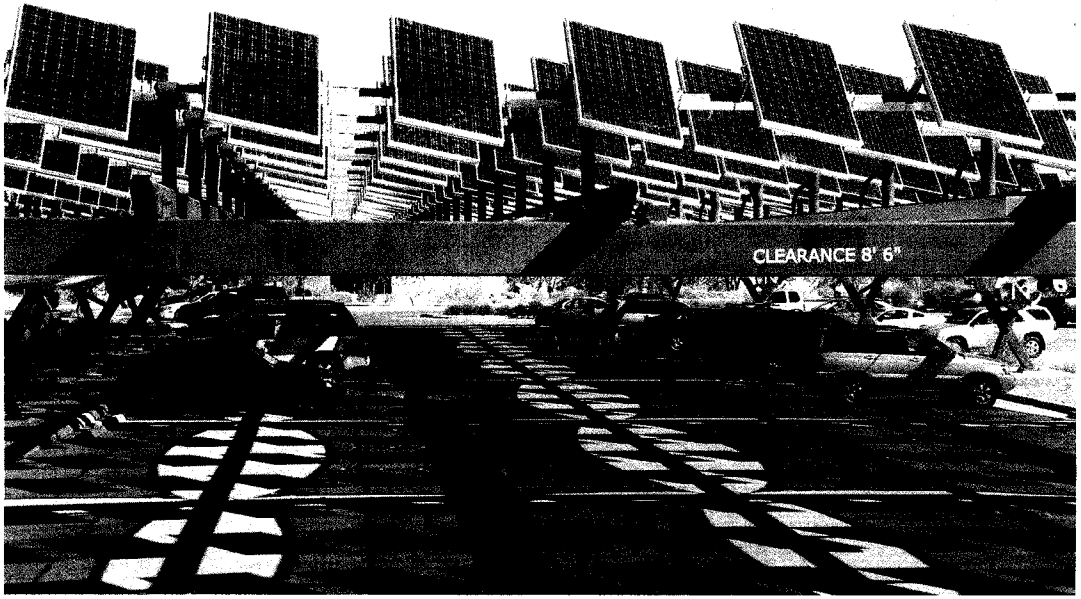
ATTACHMENT NO. 1-12

Over time this will become the new normal for parking lots.



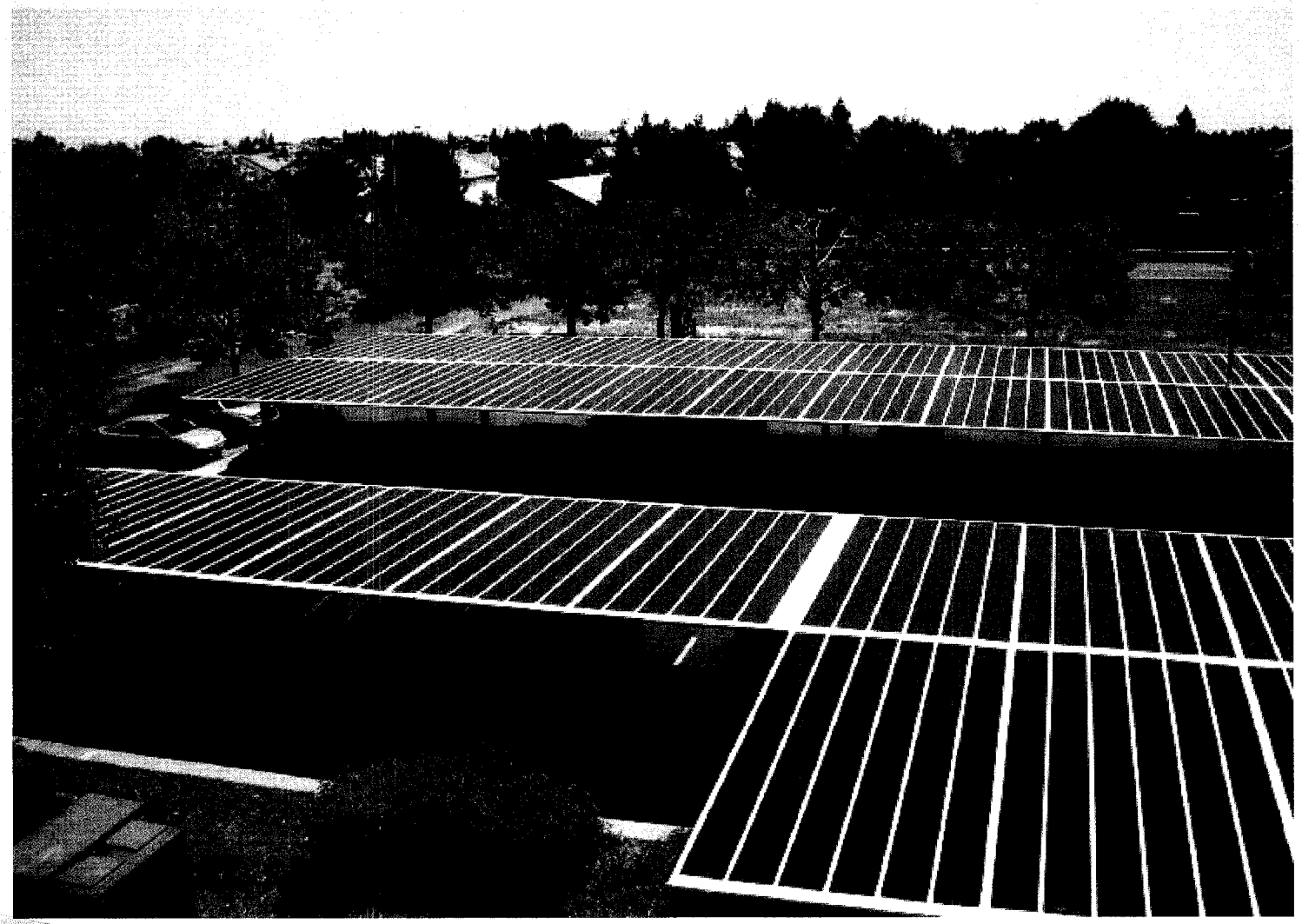
Chico, CA





ATTACHMENT NO. 1

Solar carports are a great opportunity for environmental stewardship, economic benefit, and successful design.



ATTACHMENT NO. 1/2

Energy Projects in Process

- Solar Goal
  - 8.5 MW installed in HB by 2014
    - Commercial – 2 MW
    - Residential – 4 MW
    - Public – 2.5 MW
- Energy Efficiency goals
  - 20% savings over 2004 by 2012 for SCE platinum level partnership

ATTACHMENT NO. 1.13

Energy Projects in Process

- Cleantech OC – Public-private partnership
  - Mayor on the Board of Directors
  - Staff on government & advisory committees
- OC Sunergy – PACE program
  - Eliminates up-front cost of solar
  - Eliminates worry about moving before recouping investment

ATTACHMENT NO. 1.14

Environmental Board

- Recommended Energy Savings re-investment policy for budget neutral funding
- Recommended Environmentally Preferred Purchasing policy
- Environmental Awards – SCE Sponsorship
- Consumer based energy assessment program

ATTACHMENT NO. 1.15

Questions

- Lots of activity and funding opportunities
  - Federal
  - State
  - SCE
  - SCG

ATTACHMENT NO. 1.6